

TRANSLATION

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 2003P19418WO	FOR FURTHER ACTION		See Form PCT/IPEA/416
International application No. PCT/EP2005/000481	International filing date (<i>day/month/year</i>) 19.01.2005	Priority date (<i>day/month/year</i>) 21.01.2004	
International Patent Classification (IPC) or national classification and IPC H01L25/10 H05K1/00			
<p>Applicant SIEMENS VDO AUTOMOTIVE</p>			
<p>1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of 5 sheets, including this cover sheet.</p> <p>3. This report is also accompanied by ANNEXES, comprising:</p> <p>a. <input type="checkbox"/> (<i>sent to the applicant and to the International Bureau</i>) a total of _____ sheets, as follows:</p> <p><input type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).</p> <p><input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.</p> <p>b. <input type="checkbox"/> (<i>sent to the International Bureau only</i>) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).</p> <p>4. This report contains indications relating to the following items:</p> <p><input checked="" type="checkbox"/> Box No. I Basis of the report</p> <p><input type="checkbox"/> Box No. II Priority</p> <p><input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p><input type="checkbox"/> Box No. IV Lack of unity of invention</p> <p><input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p><input type="checkbox"/> Box No. VI Certain documents cited</p> <p><input type="checkbox"/> Box No. VII Certain defects in the international application</p> <p><input type="checkbox"/> Box No. VIII Certain observations on the international application</p>			

Date of submission of the demand	Date of completion of this report
Name and mailing address of the IPEA/EP	Authorized officer
Facsimile No.	Telephone No.

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Box No. I Basis of the report

1. With regard to the **language**, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

This report is based on translations from the original language into the following language _____, which is the language of a translation furnished for the purposes of:

 - international search (Rule 12.3 and 23.1(b))
 - publication of the international application (Rule 12.4)
 - international preliminary examination (Rule 55.2 and/or 55.3)
2. With regard to the **elements** of the international application, this report is based on (*replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report*):

the international application as originally filed/furnished
 the description:
 pages 1–6 as originally filed/furnished
 pages* _____ received by this Authority on _____
 pages* _____ received by this Authority on _____

the claims:
 nos. 1–9 as originally filed/furnished
 nos.* _____ as amended (together with any statement) under Article 19
 nos.* _____ received by this Authority on _____
 nos.* _____ received by this Authority on _____

the drawings:
 sheets 1/2–2/2 as originally filed/furnished
 sheets* _____ received by this Authority on _____
 sheets* _____ received by this Authority on _____

a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.
3. The amendments have resulted in the cancellation of:

the description, pages _____
 the claims, nos. _____
 the drawings, sheets/figs _____
 the sequence listing (*specify*): _____
 any table(s) related to sequence listing (*specify*): _____
4. This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

the description, pages _____
 the claims, nos. _____
 the drawings, sheets/figs _____
 the sequence listing (*specify*): _____
 any table(s) related to sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	2–4, 6–9	YES
	Claims	1, 5	NO
Inventive step (IS)	Claims	—	YES
	Claims	1–9	NO
Industrial applicability (IA)	Claims	1–9	YES
	Claims	—	NO

2. Citations and explanations (Rule 70.7)

1. Reference is made to the following document:

D1: DE 199 51 916.

2. The subject matter of claim 1 does not fulfil the requirements of novelty defined in PCT Article 33(2).

2.1 Document D1 describes (the references between parentheses apply to said document):

- a method for optimising the number of power outputs in an electronic control device, such as a specific-application integrated circuit, that is mounted on a printed circuit board (Leiterplatte 1, figure 1), wherein the number of power outputs required is dependent on the specific application. Said method is characterised in that it involves mounting an integrated circuit of a first type including a first number of power outputs and an integrated circuit of a second type including a second number of power outputs, respectively, in two

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Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
<p>packages with geometrically identical connectors (packages 20 and 21 in figure 1 include packages with geometrically identical connectors: the packages with eight contacts all have the same shape and the same arrangement of electrical contacts), in such a way that said two circuits are made compatible for implantation on the printed circuit board and at least two locations are provided on said board for the implantation of said two packages, and in that the number of power outputs necessary for said application is arrived at by implanting, in said locations, at least two circuits selected from said integrated circuit of the first type and said integrated circuit of the second type (at least two packages, each with eight contacts, are mounted on the printed circuit board in figure 1).</p> <p>Indeed, the "integrated circuit of a first type including a first number of power outputs" and the "integrated circuit of a second type including a second number of power outputs" in claim 1 can also be <i>of the same type</i> (see the examples with 12, 18 and 24 outputs in figure 2 of the present application). It follows that the subject matter of claim 1 is not novel.</p> <p>2.2 The same argument applies <i>mutatis mutandis</i> to the subject matter of the corresponding independent claim 5, which is consequently not novel/inventive</p>	

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Box No. V **Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement either.**

3. Dependent claims 2-4 and 6-8 do not contain any features which, in combination with the features of any one of the claims to which they refer, might define subject matter that fulfils the PCT requirements of novelty and/or inventive step (see document D1 and the corresponding passages cited in the search report).